

THE WATER SPOT 2003

"Program Information From The SAFE DRINKING WATER BRANCH"

Volume 7, ISSUE 1

January/February/March 2003

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GOVERNOR APPROVES REVISIONS TO CHAPTER 20

On November 22, 2002, Governor Cayetano approved and signed the revisions to Hawaii Administrative Rules, Chapter 11-20, Rules Relating to Potable Water Systems. This revision became effective as of December 31, 2002.

The approved changes to Chapter 20 are as follows:

1. Update references to the Federal Safe Drinking Water Act to include the most recent 1996 amendments.
2. Incorporate new Environmental Protection Agency (EPA) requirements consisting of two rules: the Interim Enhanced Surface Water Treatment Rule (IESWTR) and the Stage 1 Disinfectants and Disinfection Byproducts Rule (D/DBPR), as codified in Title 40 Code of Federal Regulations (primarily Parts 141 and 142). The IESWTR and D/DBPR affect (1) public water systems (PWS) that are supplied either by a surface water source or a groundwater source under the direct influence of surface water (GWUDI) and that serve at least 10,000 people and (2) community water systems (CWS) and non-transient, non-community water systems (NTNCWS) which add a chemical disinfectant to the water in any part of the drinking water treatment process, respectively.

The IESWTR amends the existing Surface Water Treatment Rule to strengthen microbial protection, including provisions specifically to address *Cryptosporidium* and risk trade-offs with the formation of disinfection byproducts during chlorination. The final rule includes treatment requirements for waterborne pathogens, e.g., *Cryptosporidium*. In addition, systems must continue to meet existing requirements for *Giardia lamblia* and viruses. Specifically, the rule includes: (1) Maximum contaminant level goal (MCLG) of zero for *Cryptosporidium*; (2) 2-log *Cryptosporidium* removal requirements for systems that filter; (3) strengthened combined filter effluent turbidity performance standards; (4) individual filter turbidity monitoring provisions; (5) disinfection profiling and benchmarking provisions; (6) systems using groundwater under the direct influence of a surface water now subject to the new rules dealing with *Cryptosporidium*; (7) inclusion of *Cryptosporidium* in the watershed control requirements for unfiltered public water systems; (8) requirements for covers on new finished water reservoirs; and (9) sanitary surveys conducted by the State for all surface water systems regardless of size.

The rule is designed to optimize treatment reliability and to enhance physical removal efficiencies to minimize the *Cryptosporidium* levels in finished water. In addition, the rule includes disinfection profiling and benchmarking provisions to assure continued levels of microbial protection while facilities take the necessary steps to comply with new disinfection byproducts rule standards.

The Stage 1 Disinfectants and Disinfection Byproducts Rule (D/DBPR) updates and supersedes the 1979 regulations for total trihalomethanes. In addition, it will reduce exposure to three disinfectants and many disinfection byproducts. The rule establishes maximum residual disinfectant levels (MRDLs) for three chemical disinfectants - chlorine, chloramine and chlorine dioxide. It also establishes maximum contaminant level goals (MCLGs) and maximum contaminant levels (MCLs) for disinfection byproducts: total trihalomethanes, five haloacetic acids, chlorite and bromate. Water systems that use surface water or groundwater under the direct influence of a surface water and use conventional filtration treatment are required to remove specified percentages of organic materials, measured as total organic carbon (TOC), that may react with disinfectants to form disinfection byproducts. Removal will be achieved through a treatment technique (enhanced coagulation or enhanced softening) unless a system meets alternative criteria.

3. Revise text throughout HAR 11-20 to allow for the analysis and detection of *E. coli* as an alternative to fecal coliform-positive analysis and detection in meeting the maximum microbiological contaminant levels.

4. Revise the current Maximum Contaminant Level (MCL) for fluoride, which varies based on the annual average of the maximum daily air temperature for the water system location, with the federal MCL for fluoride of 4.0 ppm.
5. Update the referenced document used to certify analytical laboratories analyzing drinking water samples.
6. Update affected public water systems (PWS) monitoring schedule for unregulated contaminants.
7. Incorporate new Lead and Copper Rule Minor Revisions (F.R. Vol. 65, No. 8, Wednesday, January 12, 2000, pgs 2003-2015) by reference.
8. Clarify the requirements for reporting Consumer Confidence Reports by PWSs; and
9. Revise the 1,2,3-Trichloropropane (TCP) Maximum Contaminant Level (MCL) from 0.0008 mg/l to 0.0006 mg/l.

Except for Item No. 9, these changes are primarily federally-mandated, will directly affect all +130 regulated PWS statewide, and may indirectly affect the general public.

To obtain copies, call the Safe Drinking Water Branch at (808) 586-4258. Kauai residents may call the direct toll free number 274-3141, ext. 64258. Maui residents may call the direct toll free number 984-2400, ext. 64258. Big Island residents may call the direct toll free number 974-4000, ext. 64258. Molokai and Lanai residents may call toll free at 1-800-468-4644, ext. 64258. The first copy is free, there may be a charge for additional copies.

For more information related to these changes, please contact Michael Miyahira of the Safe Drinking Water Branch at the above address or at (808) 586-4258.

New Surface Water Treatment Rule ADMINISTRATIVE Manual – Now Available

The new Surface Water Treatment Rule Administrative Manual is now available from the Safe Drinking Water Branch. A copy is being mailed to all affected surface water and GWUDI systems covered by this manual. The manual is effective as of January 1, 2003.

Copies may also be downloaded from the Safe Drinking Water Branch website at: <http://www.hawaii.gov/health/eh/sdwb>

Compliance With State Requirements – An Integral Part of The Sanitary Survey

Operator compliance with State requirements is the eighth element in the multi-barrier approach to preventing waterborne disease and chemical contamination. A sanitary survey should determine the safety, adequacy, and reliability of the source/system. There are several aspects of operator compliance with State requirements that ultimately affect the overall capabilities of the system.

Operators should review not only Federal drinking water requirements but also State drinking water requirements as established in by Hawaii Administrative Rules, Chapter 11-20, Rules Relating to Potable Water Systems. In certain instances, State requirements may differ from Federal requirements and what may be in compliance with one requirement may not be in compliance with the other requirement. As a drinking water primacy state, you should be aware of when the State has jurisdiction over a given drinking water rule or regulation.



Federal and State drinking water requirements may differ, so please review both when determining compliance.

Certification Refresher Training Course for Water Distribution System Operators

Sponsored by:

Hawaii Department of Health,
Safe Drinking Water Branch
U.S. Environmental Protection Agency



Presented by:

Rural Community Assistance Corporation
Pural Water Specialty Company

Pearl City, Oahu
D.O.H. Laboratory Facility

April 15, 16 & 17, 2003
7:45 am to 4:00 pm, daily

Drinking water distribution system operations and maintenance personnel are invited to attend and participate in the training course on certification refresher-training topics. The course will cover material that should be familiar to water distribution system operators preparing to take the Department of Health /ABC Certification examination.

TRAINING SESSION TOPICS WILL INCLUDE:

- Solving Math Problems/Cert. Exam Preparation Tips
- Water Sources/Water Quality/Water Treatment
- Infrastructure/Wells & Pumps/System Surveillance
- Leak Detection & Repair/Trenching & Excavation
- Cross-connections/Backflow Prevention/Disinfection
- Operator Responsibilities/Safety/S.D.W.A. Regs.
- Routine & Preventive Maintenance/Valves/Meters

DATES TO REMEMBER

January 29, 2003- Exam Applications due to Safe Drinking Water Branch
April 29, 2003 - Distribution System Operator Certification Examination

NOTE: You will need a pocket calculator for the workshop.

QUESTIONS? Need More Information?

Department of Health
Safe Drinking Water Branch
(808) 586-4258

For: Exam Applications
Certification Requirements

RCAC
Glenn Johansen – (808)896-3886
Hilo Office – (808)934-7684

For: Workshop Registration
Training Session Information



RCAC WORKSHOP REGISTRATION FORM

Certification Refresher Training Course for Water Distribution System Operators
D.O.H. Laboratory Facility * Pearl City, Oahu
April 15, 16 & 17, 2003 - 7:45 a.m. to 4:00 p.m. daily

Last Name:		First Name:	
Position/Title (e.g. Manager, Specialist, etc.):			
Organization/Company:			
Mailing Address (Street, PO Box, etc.):			
City:		State:	Zip:
Physical Address (if different from mailing):			
City:		State:	Zip:
Work Phone:		Fax number:	
E-mail Address:			
Organization/ Company Website:			
P.W.S. ID Number:	P.W.S. Name:		

Registration Fee:

- \$20.00 per person (covers entire 3-day workshop)
- Payable to: **State of Hawaii**

Check/Money Order #: _____

Mail form with fee payment to:

RCAC Workshop Registration
234 Waianuenue Ave., Suite 107
Hilo, HI 96720-2418

(Postmarked by April 5, 2003)

Accepted Payments:

Corporate Check
Bank Cashier's Check
Money Orders

Not Accepted:

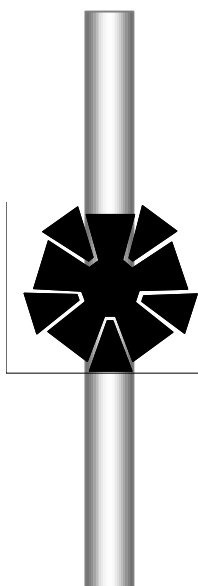
Cash
Credit Cards
Personal Checks
Purchase Orders*

***Hawaii State Agencies**

may utilize Journal voucher payment.

Note: The number of participants may be limited by classroom capacity. Priority will be given to those who have registered with the DOH-SDWB to take the Distribution System Operator certification exam on April 29, 2003. Once classroom capacity is reached, registration will be closed. Your registration will be confirmed.

**PUBLIC
WATER
SYSTEMS
OPERATOR
&
MANAGERIAL
TRAINING
COURSES**



**STATEWIDE, ONE-DAY WORKSHOPS FOR
PROFESSIONAL DEVELOPMENT & CEU
CREDIT**

February to June 2003

Sponsored by:

- Hawaii Department of Health,
Safe Drinking Water Branch
- U.S. Environmental Protection Agency

Presented by:

Rural Community Assistance Corporation

Public drinking water system operations, maintenance, supervisory, and managerial personnel are invited to attend and participate in the one-day professional development workshops scheduled for locations around the state. Each workshop is designed to provide five training contact hours for Continuing Education Credit (CEU) for all water system personnel.

TIME

- All workshops run from 9:30 a.m. to 3:30 p.m. (*5.0 TCH=0.6 CEU*).
- A one-hour break is scheduled from 11:30 a.m. to 12:30 p.m.
- *Lunch is not provided - you may want to bring your lunch.*

Fee & **completed registration** must be postmarked at least
10 days before the scheduled date of your desired workshop.

**REGISTRATION
DEADLINE**

FEE

- \$20.00/person for each workshop
- Corporate Check, Bank Cashier's Check, or Money Order accepted
- Payable to **State of Hawaii**
- NO Cash, Credit Cards, Requisitions, Personal Checks, Purchase Orders
- **Hawaii State Agencies** – may utilize journal voucher payment

QUESTIONS & LATEST WORKSHOP INFORMATION:

Glenn Johansen, RCAC
Phone (808) 896-3886
Fax (808) 327-9698
Email gjohanse@rcac.org

RCAC Website
www.rcac.org
**Hawaii Section-AWWA
Website**
www.awwa-hi.org

RCAC -Hilo Office
(808) 934-7684 **Phone**
(808)969-7727 **Fax**
Email hilooffice@rcac.org

Public Water Systems Operator & Managerial Training Courses



FEBRUARY TO JUNE 2003

SAFE DRINKING WATER ACT REGULATIONS AND UPCOMING NEW REGULATIONS

Location	Site	Date
Lanai City	Lanai Co. Training Room	Feb. 19
Molokai	Kulana 'Oiwi Meeting Room	Feb. 24
Pearl City	DOH Laboratory Facility	Mar. 10
Hilo	Environmental Health Facility	Apr. 2
Lihue	Kauai War Memorial Conv. Hall	May 1
Wailuku	State Office Building, 3 rd floor	May 20
Keahole-Kona	NELHA Conference Room	TBA

Focus: Water System Managers

Emphasis:

- (1) Review of the Hawaii Administrative Rules, Title 11, Chapter 20-, Rules Relating to Potable Water Systems for the water system manager
- (2) Regulatory update including Ground Water Rule, LT1ESWTR, LT2ESWTR, Stage 2 DBPR, Filter Backwash Recycling Rule, Arsenic, Radionuclides/Radon, Lead & Copper Rule, Vulnerability Assessment, Emergency Response Plan, etc.
- (3) Public notification requirements, types of violations and the Tier 1, Tier 2, Tier 3 notification requirements; Consumer Confidence Reports; TMF Capacity update.

DRINKING WATER CONTAMINANTS AND TREATMENT PROCESSES

Location	Site	Date
Hilo	Environmental Health Facility	Feb. 26
Lihue	Kauai War Memorial Conv. Hall	Feb. 28
Keahole-Kona	NELHA Conference Room	Mar. 12
Pearl City	DOH Laboratory Facility	Mar. 14
Wailuku	State Office Building, 3 rd floor	Mar. 19
Kaunakakai	Kulana 'Oiwi Meeting Room	Apr. 21
Pearl City	DOH Laboratory Facility	Apr. 23
Wailuku	State Office Building, 3 rd Floor	Apr. 28
Hilo	Environmental Health Facility	Apr. 30
Pearl City	DOH Laboratory Facility	May 7
Lihue	Kauai War Memorial Conv. Hall	May 22
Kaunakakai	Kulana 'Oiwi Meeting Room	May 28
Keahole-Kona	NELHA Conference Room	TBA
Pearl City	DOH Laboratory Facility	TBA

Focus: Water Treatment Plant Operators & Distribution System Operators

Emphasis:

- (1) Bacterial contaminants, enteric viruses, protozoa, organic & inorganic contaminants
- (2) Advantages & disadvantages of various disinfection treatment methods & their relative effectiveness in eliminating contaminants; emerging technologies.
- (3) Treatment requirements for surface water systems & groundwater systems under the direct influence of surface water (GWUDISW); the Ground Water Rule.



RCAC WORKSHOP REGISTRATION FORM

Workshop (check all that apply)		Location	Date
<input type="checkbox"/>	Safe Drinking Water Act Regulations and Upcoming New Regulations		
<input type="checkbox"/>	Drinking Water Contaminants and Treatment Processes		

- \$20.00/person/workshop.
- Payable to the State of Hawaii.

Enclosed Check/
Money Order #:

Last Name:		First Name:	
Position/Title (e.g. Manager, Specialist, etc.):			
Organization/Company:			
Mailing Address (PO Box, etc.):			
City:		State:	Zip:
Physical Address (if different from mailing):			
City:		State:	Zip:
Work Phone:		Fax number:	
E-mail Address:			
Organization/ Company Website:			
P.W.S. ID Number:		P.W.S. Name:	

Mail form with fee payment to:

**RCAC Workshop Registration
234 Waianuenue Ave., Suite 107
Hilo, HI 96720-2418**

**(Postmark 10 days BEFORE workshop date
to allow for processing & confirmation.)**

Note: The number of participants in some locations may be limited by classroom capacity. Priority will be given to the earliest date of registration. Once classroom capacity is reached, registration will be closed. Your registration will be confirmed.

Stuart Donachie (President of Hawaii Branch of ASM) and Roger Fujioka (University of Hawaii Water Resources Research Center) have arranged for Professor Ronald Atlas, president of American Society for Microbiology, to make a special public presentation entitled, "*Community Preparedness for a Bioterrorist Attack and the Role of Microbiologists*" during the afternoon of April 4, 2003. Professor Atlas' trip and presentation are being funded by the American Society for Microbiology and he will be the invited speaker at the Hawaii Branch of ASM Spring Meeting on April 5th. Professor Atlas has been the national spokesman for microbiologists on the topic of bioterrorism and has testified to Congress. To take advantage of his visit to Hawaii, Stuart and Roger have been working with the Honolulu Board of Water Supply (HBWS) to have the mayor of Honolulu declare April 4th as Microbiology Appreciation Day.

This event will be co-sponsored by those agencies that are relevant to this presentation and official representatives from these agencies will be present. The representatives from all co-sponsors will form a kind of panel that will initiate a discussion with Professor Atlas at the end of his presentation.

This special public presentation will be held on April 4th from 1:00 – 4:00pm at the Neil Blaisdell Center – Hawaii Room. To obtain additional information regarding this event, please contact the Water Resources Research Center at (808) 956-7847.

*Please send your
suggestions, ideas,
questions or
comments to:*

THE WATER SPOT 2003
Safe Drinking Water Branch
State Department of Health
919 Ala Moana Blvd., Room 308
Honolulu, Hawaii 96814

Fax us at (808) 586-4351
"THE WATER SPOT 2003"

SDWB WEB SITE:
<http://www.hawaii.gov/health/eh/sdwb>



LINDA LINGLE
Governor of Hawaii

CHIYOME LEINAALA FUKINO, M.D.
Director of Health

The Water Spot 2003 (January/February/March 2003)
Safe Drinking Water Branch
Environmental Management Division
Hawai'i Department of Health
919 Ala Moana Boulevard, Room 308
Honolulu HI 96814

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